WHAT IS CLAIMED IS:

1. A wireless communication protocol for use by a wireless device and a print device for a wireless device to initiate a print by reference operation with the print device, the protocol comprising content for the body of a packet and including:

a tag identifying a packet body as being a packet body for a print by reference operation for the wireless device to initiate a print of print content; and

a location attribute identifying the location of the print content.

2. The protocol according to claim 1, wherein said location attribute requires a uniform resource locator identifying the location of the print content.

3. The protocol according to claim 1, wherein the content for the body of the packet further comprises a description attribute providing a name for the location identified by the location attribute.

4. The protocol according to claim 1, wherein the content for the body of the packet further comprises a print service attribute identifying a location of a print service to be used in accessing the print content.

5. The protocol according to claim 4, wherein the print service attribute requires a uniform resource locator identifying the location of the print service to be used in accessing the print content.

6. The protocol according to claim 1, wherein the content for the body of the packet further comprises a device address attribute identifying an Internet address of the wireless device.

7. The protocol according to claim 1, wherein the content for the body of the packet further comprises an encoding type attribute indicating how the print content at the location identified by the location attribute is encoded.

8. The protocol according to claim 1, wherein the content for the body of the packet further comprises a cookie attribute identifying a cookie usable to process the print content at the location identified by the location attribute.

1   9. The protocol according to claim 8, wherein the cookie attribute

2   uses a cookie name formatted according to HTTP Cookie MIME header name

3   conventions.

1   10. The protocol according to claim 1, wherein the content for the

2   body of the packet further comprises a security attribute identifying security

3   information that can be used in response to a security challenge.

1   11. The protocol according to claim 10, wherein the security

2   information comprises information that can be used in response to an HTTP 401

3   security challenge.

1   12. The protocol according to claim 10, wherein the security

2   information comprises information that can be used in response to an HTTP 407

3   proxy challenge.

1   13. The protocol according to claim 1, wherein the body of the

2   packet further comprises:

3   a HTTP 401 security attribute including information that can be used

4   in response to an HTTP 401 security challenge; and

5   a HTTP 407 security attribute including information that can be used

6   in response to an HTTP 407 proxy challenge.

1   14. The protocol according to claim 13, wherein the format of both

2   of the HTTP 401 and HTTP 407 security attributes are formatted according the

3   HTTP Authorization header of RFC2617.

1   15. The protocol according to claim 1, wherein the body of the

2   packet further comprises a time attribute indicating the time at which a packet is

3   sent by the wireless device to initiate a print of print content.

1   16. The protocol according to claim 15, wherein the time attribute

2   gives the wireless device's Universal Time Code date and time of last

3   modification in ISO 8601 format.

1   17. The protocol according to claim 1, wherein the body of the

2 packet further comprises a key attribute associating security information with the

3 tag.

1   18. The protocol according to claim 17, wherein the key attribute

2 comprises an encrypted and time-sensitive key.

1   19. The protocol according to claim 1, wherein the body of the

2 packet further comprises a status code attribute indicating an alternative location

3 to obtain print content.

1   20. The protocol according to claim 1, wherein the body of the

2 packet further comprises a billing attribute identifying one of the wireless device

3 and a user of the wireless device for billing purposes.

1   21. A wireless communication protocol for use by a wireless device

2 and a print device for a wireless device to initiate a print by reference operation

3 with the print device, the protocol comprising elements for:

4   establishing the nature of the communication as relating to a print by

5 reference operation; and

6   providing a reference identifying a location of content to be printed.

1   22. The wireless communication protocol according to claim 21,

2 wherein the reference comprises a Universal Resource Locator.

1   23. The wireless communication protocol according to claim 22,

2 further comprising elements for:

3   identifying a remote print service usable to process the content to be

4 printed;

5   identifying a cookie usable to process the print to be printed; and

6   providing security information usable in response to a security

7 challenge.

1   24. The wireless communication protocol according to claim 23,

2 further comprising elements for identifying one of the wireless device and a user

3 of the wireless device for billing purposes.

1   25. The wireless communication protocol according to claim 23,

2   further comprising a key element including an encrypted and time-sensitive key.

1   26. The wireless communication protocol according to claim 21

2   further comprising a new sheet element for indicating whether the content to be

3   printed should be printed beginning on a new sheet of media.

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